Title (en)

Method for computing the receive power of a non serving cell, and receiver for doing the same

Title (de)

Verfahren zur Berechnung der Empfangsleistung einer nicht abwickelnden Zelle und Empfänger zur Durchführung des Verfahrens

Title (fr)

Procédé de calcul de l'alimentation de réception d'une cellule de non service et récepteur pour l'effectuer

Publication

EP 2341647 B1 20140806 (EN)

Application

EP 09368053 A 20091230

Priority

EP 09368053 A 20091230

Abstract (en)

[origin: EP2341647A1] A method for testing a band allocated to a non serving cell for a wireless OFDM communication systems, involving the step of: - configuring the RF front end circuit to receive a wide band signal covering multiple candidates of bandwidths (BW i) which are likely to be allocated to said non serving cell; - computing the received OFDM symbols; - entering into a first loop for successively testing two consecutive bandwidth candidates (BW i), said testing comprising the steps of: - computing a first non coherent power estimation (RSRP_Excess i) of the received signal on the basis of the reference signals (RS) existing in the non overlapping range of said two consecutive bandwidth (BWi); - computing a second coherent power estimation (RSRP_Excess i_ coh)of the received signal on the basis of the reference signals (RS) existing in the non overlapping range of said two consecutive bandwidth (BWi); - comparing said first and said second estimation and determining and determining whether the tested bandwidth (BWi) is allocated to said tested non serving cell.

IPC 8 full level

H04B 17/00 (2006.01)

CPC (source: EP KR US)

H04B 17/318 (2013.01 - KR); **H04B 17/382** (2013.01 - EP KR US); **H04L 25/0224** (2013.01 - KR); **H04W 36/08** (2013.01 - KR); **H04W 36/30** (2013.01 - KR)

Cited by

CN105830495A; EP2693666A4; US9924517B2; WO2015043625A1; WO2013141307A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

EP 2341647 A1 20110706; **EP 2341647 B1 20140806**; KR 20120115505 A 20121018; US 2012320773 A1 20121220; US 8995296 B2 20150331; WO 2011079945 A1 20110707

DOCDB simple family (application)

EP 09368053 A 20091230; EP 2010007957 W 20101229; KR 20127016861 A 20101229; US 201013518441 A 20101229